# FACILITY STATUS CHANGE FORM

| Date Submitted: | Area: | Control #: |
|---|---|---|
| September 19, 2014 | 300 Area | D4-300-100 |
| **Originator:** | **Facility ID:** | |
| Chris Strand | 352F | |
| **Phone:** | **Action Memorandum:** | |
| 554-2720 | Action Memorandum #1 | |

**This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.**

**Section 1: Facility Status**

☒ All D4 operations required by action memo complete.

☐ D4 operations required by action memo partially complete, remaining operations deferred.

**Description of Completed Activities and Current Conditions:**

Deactivation: Utility isolations were performed on the facility prior to beginning facility decontamination.

The following hazardous materials were removed prior to facility demolition: batteries, Freon, oil, lights, light ballasts, and miscellaneous construction materials. Hazardous material removal and waste disposition was performed in accordance with *Removal Action Work for 300 Area Facilities*, DOE/RL-2004-77, Revision 2 (RAWP).

Demolition: Above-grade demolition of the 352F Substation was completed in August of 2014. Below-grade demolition of the 352F foundation was completed in September 2014. A cable vault underlying 352F was demolished to 3 feet below grade and left in place in September of 2014. The above and below-grade building debris were removed and disposed of at ERDF. The demolition was performed under standard demolition controls.

**Description of Deferral (as applicable):**

None.

**Section 2: Underlying Soil Status**

☒ No waste site(s) present. No additional actions anticipated.

☐ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.

☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.

Cleanup and closeout to be addressed under Record of Decision.

**Description of Current/As-Left Conditions:**

The 352F cable vault walls were removed to 3 feet below-grade, with the remaining portion of the structure backfilled in place. No GPERS surveys were conducted as the facility was not radiologically contaminated and it was located outside of the 300 Area Underground Radioactive Material Area. The excavation was evaluated before backfill, no anomalies noted. No postings remain following backfill and site completion.

**Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):**

N/A

**Section 3: List of Attachments**

1. Facility information (building history, characterization and identification of documented waste sites).
2. Project photographs.
3. 352F Cable Vault Civil Survey.
4. EPA approval 352F End-State.

# FACILITY STATUS CHANGE FORM

| | |
|---|---|
| DOE-RL | Date 9/19/14 |
| Lead Regulator ☒ EPA ☐ Ecology | Date 10/21/14 |

**DISTRIBUTION:**

EPA: Dennis Faulk, B1-46
Ecology: Rick Bond, H0-57
DOE: Rudy Guercia, A3-04
Document Control, H0-30
Administrative Record, H6-08 (300-FF-2 OU)

SIS Coordinator: Ben Cowin, H4-22
D4 EPL: Chris Strand, L5-45
Sample Design/Cleanup Verification: Theresa Howell, H4-23
FR Engineering: Eric Ison, L4-39
FR EPL: Chris Strand, L5-45

# Attachment 1: Facility Information

**Facility History:**

The 352F building was constructed in 1976 on a concrete slab and was associated with electrical substation C3-S4. The building had a metal roof, metal siding, a metal door, and a sheet metal gutter located above the doorway. The interior of the facility was divided into two sections. The switchgear room was used to hold switchgear units, while the northeast corner of the building was used as a battery room. An air conditioning unit was attached to the north wall, while a concrete pad housing a transformer was located on the south side of the facility. A cable vault ran directly underneath the facility. In 1984, the 352F building was expanded with a new switchgear building constructed on the west side of the existing structure. The new attachment was a prefabricated galvanized steel building and was also divided into two sections, with 13.8 kV switchgear equipment located on the west side of the building. A manhole inside the addition led down to a cable vault running underneath the facility.

The 352F building was located in the southwestern portion of the 300 area and served as a switch station for various facilities within the area.

**Building Characterization:**

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 352F Substation.

**Table 1. Summary of Characterization Surveys at the 352F Substation.**

| Type | Date | Documented In | Results Summary |
|---|---|---|---|
| Pre-Demolition | | | |
| Asbestos | July 31, 2014 | CCN# 176392 | No asbestos containing materials identified through inspection and testing. |
| IH Surveys and Beryllium Characterization | April 25, 2012 | CCN# 165858 | Facility determined to be Be free, no other contaminants above action levels. |
| Radiological Surveys | June 10, 2014<br>June 12, 2014 | RSR-300PS-14-2029<br>RSR-300PS-14-2029 | No radiological contamination identified. |

**Associated WIDs sites:**

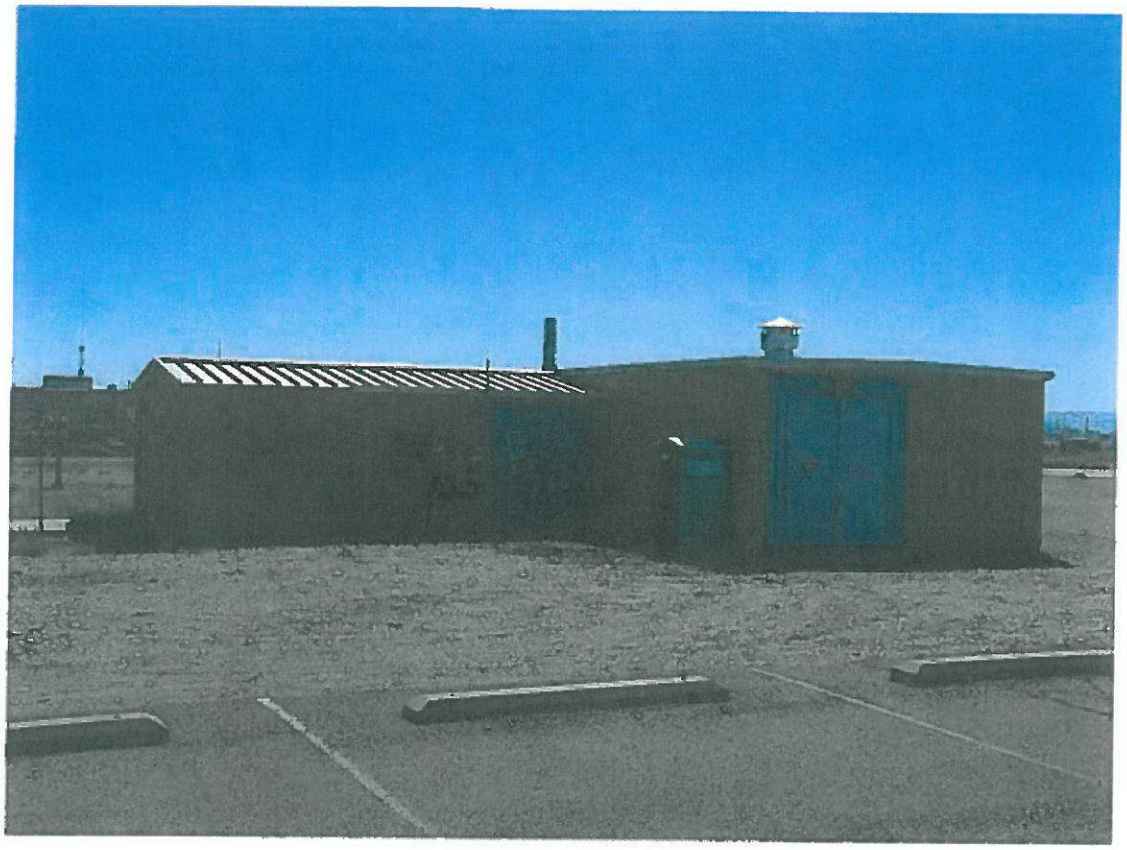
None present.

**Anomalies Discovered During Demolition.**

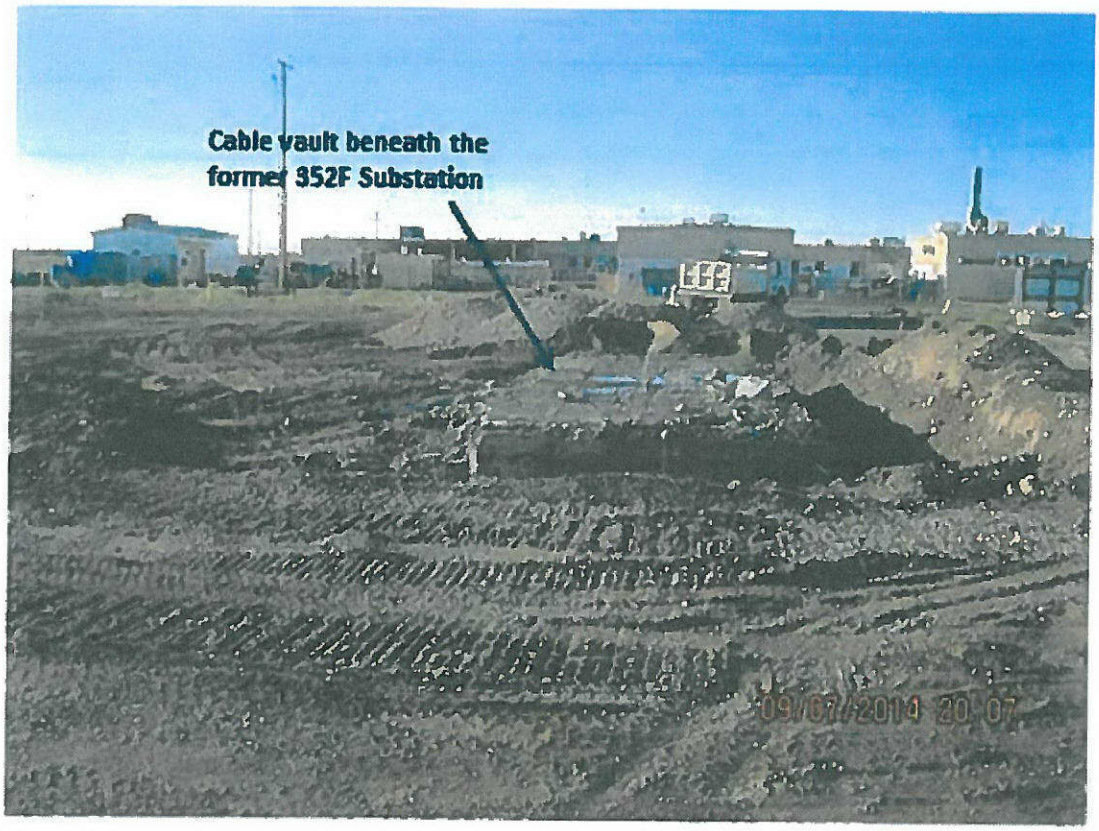
No anomalies were discovered during the demolition of the 352F Substation. No soil staining was observed upon final inspection of the excavation prior to backfill.

# Attachment 2: Project Photographs

**Photograph 1: 352F Substation looking east, 2008.**
**(The cable vault lies directly beneath)**



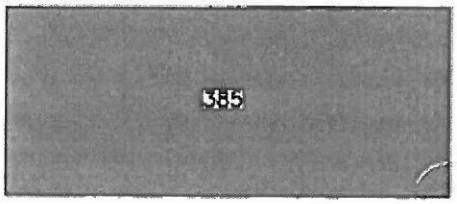
**Photograph 2. 352F Cable Vault following above-grade demolition, looking south, September 8, 2014.**



**Photograph 3. 352F Site Completion following backfill, looking south, September 11, 2014.**

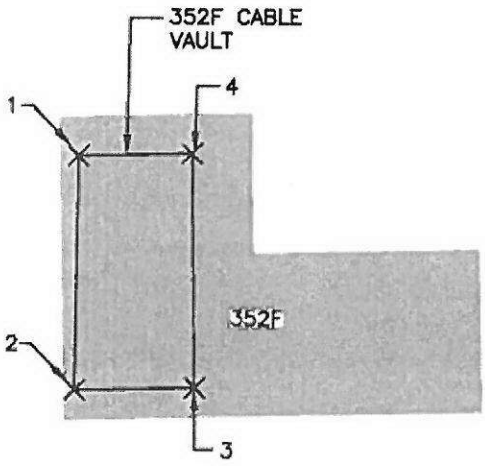
# Attachment 3: 352F Cable Vault Civil Survey

\\autocad01\cad_database\data\300_area\300_field_data-gps\352f_building_footprint\352f_bldg_footprint_fig01.dwg

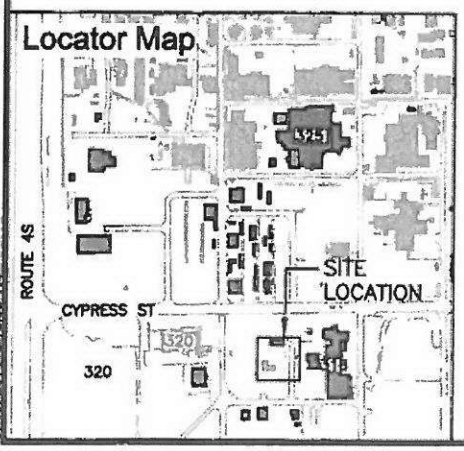



| POINT NO. | EASTING | NORTHING |
|---|---|---|
| 1 | 593924.36 | 115469.07 |
| 2 | 593924.28 | 115459.03 |
| 3 | 593929.38 | 115459.13 |
| 4 | 593929.17 | 115469.17 |

Estimated Horizontal Precision: 0.10m
US State Plane 1983
Zone: Washington South 4602;
NAD83; Units are in Meters




VASHON LANE




9/10/2014 8:18:38 AM

# 300 Area GPS Survey for 352F Cable Vault

GPS Survey Points 9/09/14

1 See Coordinate Table (Above)

Paved Roads

Dirt Roads

Existing Facility/Building

Demolished Facility/Building Footprint

SCALE 1:300

3 0 3 6 12 meters

# Attachment 4: 352F End-State Proposal

**Strand, Christopher P**

**From:** Simes, Benjamin <Simes.Benjamin@epa.gov>
**Sent:** Friday, September 26, 2014 8:32 AM
**To:** Strand, Christopher P; Guercia, Rudolph F
**Cc:** Faulk, Dennis A
**Subject:** RE: 352F End-State Proposal

Rudy,

EPA has reviewed the revised END-STATE PROPOSAL FOR THE 352F SUBSTATION report submitted on September 16, 2014. EPA is in concurrence with the Department of Energy to leave the concrete vault in place.

Thanks,

Benjamin Simes, CHMM
US EPA, OSWER
Federal Facilities Restoration and Reuse Office
703-603-0055 D
571-302-6189 C
703-603-0043 F

**From:** Strand, Christopher P [mailto:Christopher.Strand@wch-rcc.com]
**Sent:** Tuesday, September 16, 2014 4:53 PM
**To:** Simes, Benjamin; Guercia, Rudolph F
**Subject:** RE: 352F End-State Proposal

Ben,

Clarifications have been added per your request, second paragraph of the End-State section. Please let me know if you require any additional information.

Thank you,

Chris
554-2720

**From:** Simes, Benjamin [mailto:Simes.Benjamin@epa.gov]
**Sent:** Friday, September 12, 2014 7:15 AM
**To:** Strand, Christopher P; Guercia, Rudolph F
**Subject:** RE: 352F End-State Proposal

Chris,

If you could clarify the following in the report and send it back:

Was any visual staining noticed on the concrete?

Was there any documented releases at the facility?

Have PCBs ever been present at the facility?

Thanks,

Benjamin Simes, CHMM
US EPA, OSWER
Federal Facilities Restoration and Reuse Office
703-603-0055 D
571-302-6189 C
703-603-0043 F

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**From:** Strand, Christopher P [mailto:Christopher.Strand@wch-rcc.com]
**Sent:** Monday, September 08, 2014 11:47 AM
**To:** Simes, Benjamin; Guercia, Rudolph F
**Subject:** 352F End-State Proposal

Ben,

This one snuck up on me, demolition proceeded very rapidly. The 352F Substation has been demolished, and it is proposed to leave an inert, uncontaminated cable vault that underlies the facility in place. EPA concurrence is requested with this approach. The end-state will be documented on a Facility Status Change Form following site completion and backfill.

Please call if you have any questions.

Thanks,

Chris
554-2720

# END-STATE PROPOSAL FOR THE 352F SUBSTATION

## INTRODUCTION

This proposal has been developed to document the end-state of the 352F Substation following demolition. The proposal also serves as basis to gain concurrence from the U.S. Environmental Protection Agency and U.S. Department of Energy, Richland Operation for "as left" conditions to be documented on a Facility Status Change Form (FSCF) in accordance with the *Removal Action Work Plan for 300 Area Facilities*, DOE/RL-2004-77, Rev. 2, Section 2.7.

## 352F SUBSTATION DESCRIPTION

The 352F building was constructed in 1976 on a concrete slab and was associated with electrical substation C3-S4. The building had a metal roof, metal siding, a metal door, and a sheet metal gutter located above the doorway. The interior of the facility was divided into two sections. The switchgear room was used to hold switchgear units, while the northeast corner of the building was used as a battery room. An air conditioning unit was attached to the north wall, while a concrete pad housing a transformer was located on the south side of the facility. A cable vault ran directly underneath the facility. In 1984, the 352F building was expanded with a new switchgear building constructed on the west side of the existing structure. The new attachment was a prefabricated galvanized steel building and was also divided into two sections, with 13.8 kV switchgear equipment located on the west side of the building. A manhole inside the addition led down to a cable vault running underneath the facility.

The 352F building was located in the southwestern portion of the 300 area and served as a switch station for various facilities within the 300 area.

## 352F SUBSTATION END-STATE

Following deactivation and hazardous material removal, the above grade portion of the 352F was demolished using standard industry techniques. Prior to demolition, all service utilities were deactivated. All ancillary and miscellaneous peripheral equipment, etc. have been removed as part of above-grade demolition as well.

Following above-grade demolition, the 352F cable vault will be demolished to 1 to 3 feet below grade with the balance of structure being left in place. The vault contained no hazardous materials (to include PCB containing items) nor is it associated with, or in the proximity of, a waste site. Two transformers located outside the facility did contain PCB oils, but below 50 parts per million. The transformers were drained in 2006 and were subsequently recycle. The transformers showed no signs of leaking upon removal. In addition, there were no process operations that resulted in a release to the environment from facility operations (e.g., electrical distribution). Only electrical cable remains in the vault. No process sewer piping serviced the building as well and the former facility was located outside of the 300 Area Underground Radioactive Material Area. An inspection of adjoining soils following above-grade demolition identified no anomalous conditions or soil staining.

The final configuration of the 352F cable vault will consist of walls and floor. The vault walls will be removed 2 to 3 feet below grade to facilitate backfill and meet Site Completion standards in Section 2.5 of the *Removal Action Work Plan for 300 Area Facilities*, DOE/RL-2004-77, Rev. 2. This configuration will be documented on a Facility Status Change Form provided to EPA and DOE for approval.

**Figure 1. 352F Substation looking east, 2008.**
**(The cable vault lies directly beneath)**

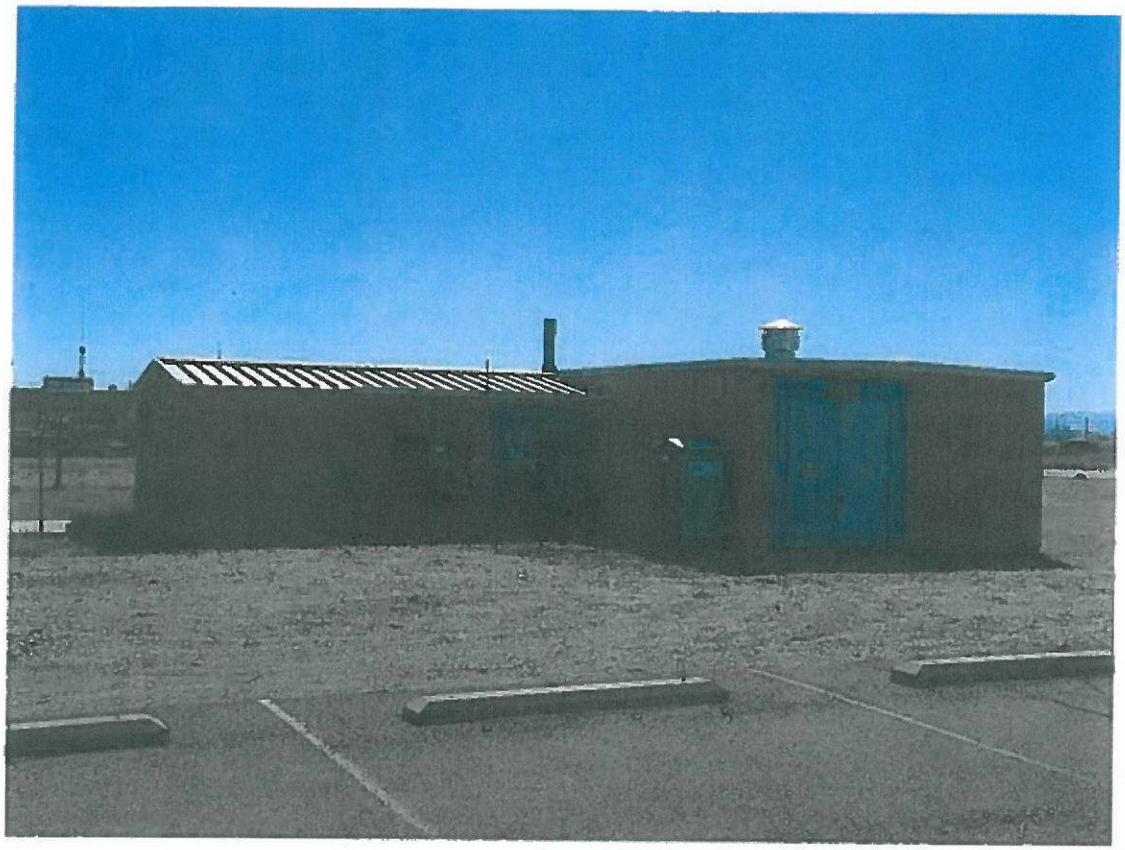

**Figure 2. 352F Cable Vault following above-grade demolition, looking south, September 8 2014.**